

Nobuyoshi Miyajima

List of Publications by Year in descending order

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Version: 2024-02-01

13
papers

269
citations

1307594

7
h-index

1199594

12
g-index

13
all docs

13
docs citations

13
times ranked

363
citing authors

#	ARTICLE	IF	CITATIONS
1	A nearly water-saturated mantle transition zone inferred from mineral viscosity. <i>Science Advances</i> , 2017, 3, e1603024.	10.3	79
2	In situ observation of nanolite growth in volcanic melt: A driving force for explosive eruptions. <i>Science Advances</i> , 2020, 6, .	10.3	67
3	Phase Relations in the System $\text{MgSiO}_3\text{-Al}_2\text{O}_3$ up to 2300ÅK at Lower Mantle Pressures. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 7775-7788.	3.4	40
4	High pressure-temperature phase relations of basaltic crust up to mid-mantle conditions. <i>Earth and Planetary Science Letters</i> , 2022, 584, 117472.	4.4	18
5	Experimental evidence for silica-enriched Earth's lower mantle with ferrous iron dominant bridgmanite. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 27899-27905.	7.1	17
6	Radiative thermal conductivity of single-crystal bridgmanite at the core-mantle boundary with implications for thermal evolution of the Earth. <i>Earth and Planetary Science Letters</i> , 2022, 578, 117329.	4.4	14
7	Effect of Fe ³⁺ on Phase Relations in the Lower Mantle: Implications for Redox Melting in Stagnant Slabs. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 12484-12497.	3.4	8
8	Discovery of New Structured Postspinel MgFe_2O_4 : Crystal Structure and High Pressure Phase Relations. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087490.	4.0	6
9	The Effect of Fe-Al Substitution on the Crystal Structure of MgSiO_3 Bridgmanite. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB021936.	3.4	6
10	Identical activation volumes of dislocation mobility in the [100](010) and [001](010) slip systems in natural olivine. <i>Geophysical Research Letters</i> , 2017, 44, 2687-2692.	4.0	5
11	Application of Scanning Precession Electron Diffraction in the Transmission Electron Microscope to the Characterization of Deformation in Wadsleyite and Ringwoodite. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 153.	2.0	5
12	Combining ECCI and FIB milling techniques to prepare site-specific TEM samples for crystal defect analysis of deformed minerals at high pressure. <i>Comptes Rendus - Geoscience</i> , 2019, 351, 295-301.	1.2	4
13	Small effect of water incorporation on dislocation mobility in olivine: Negligible creep enhancement and water-induced fabric transition in the asthenosphere. <i>Earth and Planetary Science Letters</i> , 2022, 579, 117360.	4.4	0